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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/724,028	11/26/2003	Timothy L. Blankenship	08211/0200253-US0/P05742	7271
38845	7590 03/24/2005		EXAMINER	
DARBY & DARBY P.C.			TRAN, ANH Q	
P.O. BOX 525	57		· · · · · · · · · · · · · · · · · · ·	
NEW YORK, NY 10150-5257			ART UNIT	PAPER NUMBER
,			2819	
DATE MAILED: 03/24/200			i	

Please find below and/or attached an Office communication concerning this application or proceeding.

			HIA				
	Application No.	Applicant(s)					
	10/724,028	BLANKENSHIP ET AL.					
Office Action Summary	Examiner	Art Unit					
	Anh Q. Tran	2819					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 26 No.	ovember 2003.						
	action is non-final.						
3) Since this application is in condition for allowar	· <u> </u>						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-20 is/are pending in the application.							
4a) Of the above claim(s) is/are withdraw	vn from consideration.						
5)⊠ Claim(s) <u>11-19</u> is/are allowed.	☑ Claim(s) <u>11-19</u> is/are allowed.						
6)⊠ Claim(s) <u>1-10 and 20</u> is/are rejected.	Claim(s) <u>1-10 and 20</u> is/are rejected.						
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on <u>26 November 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori	s have been received. s have been received in Applicati ity documents have been receive	on No					
application from the International Bureau * See the attached detailed Office action for a list		od.					
See the attached detailed Office action for a list	or the certified copies not receive	:a.					
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da						
2)		ate Patent Application (PTO-152)					
Paper No(s)/Mail Date <u>1/30/04</u> .	6) Other:						

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DETAILED ACTION

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Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regard as the invention. The limitation recites "a source that is coupled to one of the source of the second transistor and the gate of the second transistor; and a drain that is coupled to the other of the source of the second transistor and the gate of the second transistor while no figures showing this connection. Clarification required.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-8 are rejected under 35 U.S.C. 102(e) as being anticipated by

Prodanov (6,693,469).

Prodanov shows:

1. A circuit (Fig. 4) comprising:

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a first transistor (N5);

a second transistor (P5 or N5) that is arranged to operate as a cascode transistor in cooperation with the first transistor; and

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a keeper switch circuit (P4 or N) including three terminals that are respectively coupled to a gate, a drain, and a source of the second transistor.

- 2. The circuit of Claim 1, wherein the second transistor is configured to receive a first cascode bias voltage (Vmax) at the gate of the second transistor, and wherein the first cascode bias voltage is suitable for biasing a cascode transistor.
- 3. The circuit of Claim 1, wherein the keeper switch circuit is configured to influence a resistance between the source and the gate of the second transistor in response to a control signal (202).
- 4. The circuit of Claim 1, wherein the keeper switch circuit is configured to: receive a control signal (g) at the drain of the second transistor; and couple the source of the second transistor to the gate of the second transistor if the control signal corresponds to a first logic level (0).
- 5. The circuit of Claim 4, wherein the keeper switch circuit is further configured to isolate the source of the second transistor from the gate of the second transistor if the control signal corresponds to a second logic level (1).
- 6. The circuit of Claim 1, wherein the keeper switch circuit comprises a keeper transistor including: a gate that is coupled to the drain of the second transistor (P5 and N5); a source that is coupled to one of the source of the second transistor; and a drain the gate of the second transistor.

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7. The circuit of Claim 6, wherein the second transistor is one of an n-type transistor or a p-type transistor, and the keeper transistor is the one of the n-type transistor or the p-type transistor.

- 8. The circuit of Claim 6, wherein the second transistor is one of an n-type transistor or the p-type transistor, and the keeper transistor is the other of the n-type transistor or the p-type transistor.
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 9-10 are rejected under 35 U.S.C 102b as being anticipated by Aipperspach et al (6,060,909).

1. A circuit (Fig. 1) comprising:

a first transistor (P116);

a second transistor (124) that is arranged to operate as a cascode transistor in cooperation with the first transistor; and

- a keeper switch circuit (116) including three terminals that are respectively coupled to a gate, a drain, and a source of the second transistor.
- 9. The circuit of Claim 1, further comprising: a third transistor (122); a fourth transistor (114) that is arranged to operate as a cascode transistor in cooperation with the third transistor; and another keeper switch circuit (118) including three terminals that are respectively coupled to a gate, a drain, and a source of the fourth transistor.

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10. The circuit of Claim 9, wherein the other keeper switch circuit comprises a fifth transistor (P-channel FET) including: a gate that is coupled to the drain of the fourth transistor, a source that is coupled to one of the source of the fourth transistor, and a drain that is coupled to the other the gate of the second transistor.

The limitations of claim 20 is rejected as above claims.

Allowable Subject Matter

- 3. Claims 11-19 are allowed.
- 4. The following is an examiner's statement of reasons for allowance: with respect to claim 11, in addition to other limitation in the claim, the prior art fails to teach or disclose the applicant's invention as claimed, particularly the feature describing the connection of a second transistor, a fourth transistor, a first keeper switch circuit, and a second keeper switch circuit.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh Q. Tran whose telephone number is 571-272-1813. The examiner can normally be reached on M-TH (7:00-5:30) Friday off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Tokar can be reached on 571-272-1812. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ANH Q.TRAN
PRIMARY EXAMINES

3/15/05